

INTERNATIONAL SEARCH REPORT

Intern application No
PCT/US2004/040291

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C04B35/5831 C04B35/5835 C04B35/628 B23B27/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C04B B23B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 08 197306 A (MITSUBISHI MATERIALS CORP) 6 August 1996 (1996-08-06) Sample 1. paragraph '0005!; example 1; table 1	1-20
X	JP 01 122971 A (TOSHIBA TUNGALOY CO LTD) 16 May 1989 (1989-05-16) Compositions: table 1, upper half, samples 3 & 4, bottom half, samples 2 & 3. Sintering conditions: page 413, last paragraph (40{60 kb, 1300-1600°C).	1-17
X	JP 01 122970 A (TOSHIBA TUNGALOY CO LTD) 16 May 1989 (1989-05-16) Compositions: table 1, upper half, samples 3 & 4, bottom half, sample 4. Sintering conditions: Last line of right column, page 407 (40{60 kb, 1300-1600°C).	1-17
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

29 March 2005

Date of mailing of the international search report

05/04/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 06 335456 A (TOSHIBA CORP; others: 01) 6 December 1994 (1994-12-06) Compositions: samples 5-7 (table 2) and sample 12 (table 4). Sintering conditions: page 307, left column, directly below table 2 (50 kb, 1350°C).	1-17
X	JP 09 184030 A (CHICHIBU ONODA CEMENT CORP) 15 July 1997 (1997-07-15) example 1; table 1	1-10
A	US 2001/036893 A1 (ENYA YASUHIRO ET AL) 1 November 2001 (2001-11-01) paragraphs '0020!, '0060!, '0063!	10,18

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal application No
PCT/US2004/040291

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 8197306	A	06-08-1996	NONE	
JP 1122971	A	16-05-1989	JP 2014968 C JP 7042170 B	02-02-1996 10-05-1995
JP 1122970	A	16-05-1989	JP 1978788 C JP 7005384 B	17-10-1995 25-01-1995
JP 6335456	A	06-12-1994	JP 3392462 B2	31-03-2003
JP 9184030	A	15-07-1997	NONE	
US 2001036893	A1	01-11-2001	JP 2001206773 A DE 10102706 A1	31-07-2001 09-08-2001

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